

***Marine Renewable Energy Research and Development Act of 2007***  
**HR 2313**

**Rep. Darlene Hooley (D-OR)**  
**Introduced May 15, 2007**

**Summary**

H.R. 2313 directs the Secretary of Energy to support programs of research, development, demonstration, and commercial application in marine renewable energy technologies. It also establishes National Centers for the testing of marine renewable energy technologies.

**Section-by-Section**

***Section 1. Short Title***

Act may be cited as the “Marine Renewable Energy Research and Development Act of 2007”

***Section 2. Findings***

Marine energy sources – including waves, tidal flows, ocean currents, and thermal gradients – are clean, renewable, domestic sources of energy that have the potential to provide significant amounts of electricity to the nation’s power grid. Technologies designed to harness marine energy sources are already providing grid power in Europe. Recent studies have identified an abundance of viable sites for marine energy production in coastal areas of the United States, but expanded R&D is necessary to further develop the related technologies and hasten their commercial application. Federal support can be instrumental in hastening the development of marine renewable energy technologies and reducing the risk of investing in these areas.

***Section 3. Definitions***

Provides definitions for the following terms used in the Act: ‘Marine Renewable Energy’ (includes usable energy derived from waves, tidal flows, ocean currents, and thermal gradients), and ‘Secretary’.

***Section. 4. Marine Renewable Energy Research and Development***

Instructs the Secretary to support programs of research, development, demonstration, and commercial application of marine renewable energy technologies. Areas of activity shall include: studying and comparing existing technologies, developing improved technologies, reducing costs of manufacture and operation, investigating integration with power grid, improving wave forecasting technologies, optimizing placement of devices, increasing reliability and survivability, studying technology compatibility with the environment, protocols for interacting with devices, and developing power measurement standards.

***Section 5. Marine Renewable Energy Research and Demonstration Centers***

Calls for the establishment of one or more Centers for the research, development, and demonstration of marine renewable technologies. Such centers shall serve as permanent installations in environmentally approved areas where prototype technologies can be tested in connection with the power grid. Centers shall also serve as clearinghouses of industry relevant information. Sites for Centers shall be chosen on the basis of accessibility to appropriate marine energy resources and proximity to an existing marine renewable energy research and development program.

***Section 6. Authorization of Appropriations***

Authorizes appropriations of \$50,000,000 for each of the fiscal years 2008 through 2012.